







Î	8		7	6	5	4	3	DWG NO H-2-830825	SH 4 OF REV A	
1	ELEMENTAF	RY AND ONE LINE DIAGRAM	<u>5:</u>	:						
D	• ⊷ • VDC	LIGHTNING ARRESTOR	R	RECTIFIER	OPEN SWITCH WITH TIME DELAY CLOSING	V1 V2	REGULATING POWER TRANSFORMER V1=PRIMARY VOLTAGE V2=SECONDARY VOLTAGE	N:M€	CURRENT TRANSFORMER N-PRIMARY CURRENT M-SECONDARY CURRENT K-NO. OF CT'S	† †
	4111€	MULTICELL BATTERY	Z	AMMETER SWITCH	TDO CLOSED SWITCH WITH TIME DELAY OPENING)(72-SEGONDANI FOLINGE	V1 V2 F	POTENTIAL TRANSFORMER	D
		SINGLE CELL BATTERY OR DC SOURCE	VS	VOLTMETER SWITCH	——————————————————————————————————————	₹_		x	V2=SECONDARY VOLTAGE X=NO. OF PT'S TRANSFORMER	
	**************************************	CIRCUIT BREAKER	LAM	LIMIT ALARM MODULE	—aTo— MUSHROOM HEAD PUSH BUTTON SWITCH, NORMALLY CLOSED	\AT	MOTOR CONTROLLER CIRCUIT BREAK	y CLU OF MO	V1=PRIMARY VOLTAGE V2=SECONDARY VOLTAGE X=CONFIG WINDING	
			SS	SELECTOR SWITCH	ECTOR SWITCH —OO — MOMENTARY PUSH BUTTON SWITCH, — NORMALLY OPEN	N=NEMA CONTACTOR SIZE	11€ 11€	GENERATOR KVA, PF, V, PH, Hz	Y Y	
		THREE POLE CIRCUIT BREAKER	TS	TEST SWITCH	—OLO— MOMENTARY PUSH BUTTON SWITCH, NORMALLY CLOSED	8		₹		
	sov —\/_	OPERATING COIL, SOLENOID OPERATED VALVE	PS	PRESSURE SWITCH	-O_LO- TWO CIRCUIT PUSH BUTTON SWITCH	, Y			DRAWOUT CIRCUIT BREAKER	
C		OPERATING COIL, RELAY OR LIGHTING CONTACTOR OPERATING COIL, MOTOR CONTACTOR	CAS	CURRENT ALARM SWITCH	TWO POSTION SELECTOR SWITCH	1	5	Υ <u>Έ</u>	TRANSFORMER WINDINGS CONFIG DELTA — WYE, GROUNDED NEUTRAL	
			GFCI	GROUND FAULT CIRCUIT INTERRUPTER	 	□	MOTOR CONTROLLER FUSED DISCONNECT COMBINATION DRAWOUT TYPE N=NEMA CONTACTOR SIZE	<u> </u>	TRANSFORMER WINDINGS CONFIG	1
	—KVAR	CAPACITOR	GFPE	GROUND FAULT PROTECTION EQUIPMENT	MENT ————————————————————————————————————		Υ <u>Έ</u> 1	SHOW GROUNDED PHASE, IF APPLICABLE TRANSFORMER WINDINGS CONFIG	IFIG	
	—— - 	NORMALLY OPEN CONTACT ABOVE SYMBOL: K OR M BELOW SYMBOL: TDC OR TDPU (DE-ENERGIZED STATE) N=CONTACT NUMBER NORMALLY CLOSED CONTACT	○-GFR	GROUND FAULT RELAY WITH CURRENT SENSOR (RATIO)	-O-O- SPST CLOSED SWITCH	d December		Δ ,	WYE, GROUNDED NEUTRAL — DELTA	С
			AM	AMMETER	-O O- SPST OPEN SWITCH) - 	MOTOR CONTROLLER PRIMARY REDUCED VOLTAGE COMBINATION N=NEMA CONTACTOR SIZE	-w- {	FIXED VALUE ELECTRICAL RESISTANCE ABOVE SYMBOL: R OR HTR (Ω OR KW)	
	— <i>∤</i> / _N —	ABOVE SYMBOL: K OR M BELOW SYMBOL: TDO OR TDDO (DE-ENERGIZED STATE) N=CONTACT NUMBER	(w)	VOLTMETER	FLOW SWITCH CLOSES ON INCREASED FLOW	Ţ <u>"</u> }	N=NEMA CONTACTOR SIZE	-v/- \	VARIABLE VALUE ELECTRICAL RESISTANCE (RANGE, NOMINALLY SET AT)	
	: A .:	FLOODLIGHT	(FM)	FREQUENCY METER	FLOW SWITCH OPENS ON INCREASED FLOW	የ		0 0	SHUNT	
	÷	DIRECT CONNECTION GROUND TO EARTH OR STRUCTURE	www.	WATTMETER	LIQUID LEVEL SWITCH CLOSES ON RISING LEVEL) =A	7	₽	PHOTOELECTRIC CELL	
-	<i>т</i>	CHASSIS GROUND	(H)	WATTHOUR METER	ON RISING LEVEL		MOTOR CONTROLLER FULL VOLTAGE REVERSING OR	ر ا	DISCONNECTED WIRE TAPED AND COILED IN ENCLOSURE	-
	-14	DIODE	and	ANNUNCIATOR WINDOW	PRESSURE /VACUUM SWITCH CLOSES ON RISING PRESSURE	Ţ <u>Ţ</u> ,	2-SPEED COMBINATION F.R=FORWARD/REVERSE (USE 1.2 FOR 2-SPEED) N=NEMA CONTACTOR SIZE		CABLE SHIELD (UNGROUNDED)	
В	₩ 60 H 2 H 2 H 2 H 2 H 2 H 2 H 2 H 2 H 2 H	ZENER DIODE	HM	HOUR METER ALTERNATOR PHOTOELECTRIC CELL METER RELAY	PRESSURE/VACUUM SWITCH OPENS IN RISING PRESSURE	\$		<u> </u>	CABLE SHIELD (GROUNDED)	
		FULL WAVE BRIDGE RECTIFIER FUSE ABOVE SYMBOL: FUSE SIZE (AMPS) BELOW SYMBOL: FUSE CLASS MOTOR STARTER N=NEMA SIZE	(ALT)		TEMPERATURE ACTUATED SWITCH CLOSES ON RISING TEMPERATURE		MOTOR CONTROLLER, CONTROL TRANSFORMER AND CONTROL STATION VI=PRIMARY VOLTAGE VI=SECONDAY VOLTAGE	— <u>Q</u>		1 1
			PE		TEMPERATURE ACTUATED SWITCH OPENS ON RISING TEMPERATURE	AFU[] V1 V2		-0-	TWISTED PAIR SHIELD	В
D			MR		—0_0— VIBRATION SWITCH, NORMALLY CLO	SED	V2=SECONDARY VOLTAGE	→(- :	242-A MCS DISCRETE INPUT BLDG. N	
-	•	PUSH BUTTON CONTROL STATION	W	MOTOR BELOW SYMBOL: HP	CLOSED SWITCH WITH TIME DELAY OPENING	6			NBERS	
		SELECTOR SWITCH CONTROL STATION	(A)	AMBER INDICATING LIGHT	OPEN SWITCH WITH TIME DELAY CLOSING	Ţ			NEX	
1 =		CIRCUIT BREAKER, HIGH VOLTAGE.	В	BLUE INDICATING LIGHT	AS NONFUSIBLE DISCONNECT (SAFETY) SWITCH	⊗	PROGRAMMABLE SOLID-STATE ELECTRONIC OVERLOAD RELAY		100/014 VILLING AND ONE	
(<u></u>		CIRCUIT BREAKER, HIGH VOLTAGE.	R	RED INDICATING LIGHT	AS FUSIBLE DISCONNECT	7			OZICE GERAL INDEX NO	
	, =	THERMOCOUPLE OR RTD T=TYPE	(6)	GREEN INDICATING LIGHT	H —				3 CONTRACTOR OF THE SECOND SEC	
	<u></u>	DISCONNECT LINK RATING=AMPS	(w)	WHITE INDICATING LIGHT	ISOLATING HIGH VOLTAGE FUSE-SWITCH				35278 90 90 90 90 90 90	
	þ	OVERLOAD RELAY (49)	(NE)	NEON INDICATING LIGHT	POLE MOUNTED ISOLATING HIGH VOLTAGE				EXPRES 08/18/05	
	■	RISER POLE PRIMARY CONDUCTOR	0	CLEAR INDICATING LIGHT	FUSE SWITCH		Ī	NAME ONTE COMMY U.S.	CH2MHILL DEPARTMENT OF ENERGY	-
А		TERMINATIONS						C BENT C LEAT 29 STREET U.S.	Office of River Protection	- ^
								ABE	BREVIATIONS/LEGEND/	
				BW2 1/2	REF NUMBER TITLE	MFD REV DESCRIPTION	PEY BY DATE COMPANY	SESSION AUTHORITY 2/9/10-14 D 200E	GENERAL NOTES	Ã
: <u>-</u>	0		7	DWG NO DRAWING TRACE		REV REV	ISIONS Z	Elis Cong CHANHILLSOME NONE		
	8		/	۱ 6	5	4	J	2	(I)	1







































